

WIRELESS BASE STATION NEIGHBOR DISCOVERY IN A COMMUNICATION
SYSTEM, SUCH AS A SYSTEM EMPLOYING A SHORT-RANGE FREQUENCY
HOPPING SCHEME

ABSTRACT OF THE DISCLOSURE

Disclosed embodiments include a method performed by a network access point, such as a short-range wireless communications switch or Bluetooth base station unit, to provide a neighbor list for neighboring short-range wireless communications switches or network access points in a communications network. The method includes, at the short-range wireless switch, sending at least one signal to neighboring wireless devices, wherein sending the signal is done without assistance of a mobile unit or a system controller for the communications network. The method further includes receiving a response signal from at least one neighboring short-range wireless switch, and identifying the one neighboring short-range wireless switch based on the received response signal. Additionally, the method includes providing a neighbor list that identifies the one neighboring short-range wireless switch. Numerous alternative embodiments are also described.